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### (54) Scented candle and manufacturing method for making same

Duftkerze und Verfahren zur Herstellung

Bougie odoriférante et son procédé de fabrication

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**Description**

[0001] The present invention relates to a candle which releases a constant fragrance over a long period of time. The present invention also relates to a manufacturing method for the same.

[0002] Various additives are used in candles to provide desirable qualities, such as color, scent, texture, and stability. For example, U.S. Patent 4,449,987 describes candles containing the insect repellent methyl heptenone, coumarin, and indole to add both fragrance and insect repellence. US Patent Number 4,005,978 describes a means to reduce distortion at the time of molding by adding 0.5-1.5 % by weight of anhydrous phthalic acid to the candle manufacturing material.

[0003] A candle, which is molded using a candle manufacturing material mixed with a dried pulverized mixture of starch breakdown products containing cyclodextrin or cyclodextran and a perfume, is stabilized in terms of heat by clathrating the perfume. It is disclosed that the dispersion quality, compatibility, and storage quality of the fragrance are dramatically improved at the time of mixing into the candle (refer to Japanese laid-open patent publication number 56-11995). Candles made from flammable materials and flammable wicks, and candles which give soft lighting and which consist mainly of higher fatty acids, metal salts of resin acids, sugars or alcohols, where colorants and perfumes are added as necessary are known. Polyoxypropylene-monoalkyl-ether with a high degree of polymerization (n=40-60) is disclosed as a preservative for a perfume composition (see Japanese Laid-open Publication Number 6-74435).

[0004] In candles of the prior art, there remain many combinations of fragrances and candle manufacturing materials that are unacceptable. In some combinations, chemical and physical interactions between the fragrance materials and candle manufacturing materials give rise to candles which show a variety of poor performance qualities. Examples of poor performance includes, but is not limited to, poor odor quality, poor odor intensity, poor odor diffusion, slow burn rate, excess soot generation and poor fragrance stability during storage.

**OBJECTS AND SUMMARY OF THE INVENTION**

[0005] The object of the present invention is to provide a candle and a method for manufacturing a candle which overcome the problems of the prior art.

[0006] A further object of the present invention is to provide a candle with excellent perfume dispersion and stability.

[0007] A further object of the present invention is to provide a method to manufacture candles with excellent perfume dispersion and stability.

[0008] According to the present invention, a scented candle includes a candle manufacturing material, a fragrance provider, and at least one of polypropylene glycol and polypropylene glycol monoalkyl ether with a general formula (I)



where n is an integer between 2 and 40 and R is a hydrogen or an alkyl group with a carbon number between 1 and 10.

[0009] The above, and other objects, features and advantages of the present invention will become apparent from the following description.

**DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT**

[0010] In order to overcome the problems of the conventional technology previously described above, a scented candle according to the present invention provides a candle manufacturing material which contains a fragrance provider and at least one of polypropylene glycol and polypropylene glycol monoalkyl ether, which is expressed by general formula (I):



where n is an integer from 2 to 40, and R indicates a hydrogen or an alkyl group having a carbon number from 1 to 10.

[0011] The present inventors have also discovered a manufacturing method for a scented candle wherein a fragrance provider and at least one of polypropylene glycol and polypropylene glycol monoalkyl ether with general formula (I) (as above) are added to and mixed with the pre-melted candle manufacturing material prior to pouring into molds for the formation of the finished candle.

[0012] The polypropylene glycol monoalkyl ether compound of the present invention is a type of polypropylene glycol derivative where there is a ring-opening polymerization of an aliphatic alcohol by a propylene oxide and an ether bond

is formed. The average degree of polymerization is between 2 to 40 moles. Although polypropylene glycol monoalkyl ethers are conventionally available, the degree of polymerization required in production of candles is crucial.

5 [0013] The degree of polymerization is critical to obtain proper solubility in the production material of the candle at the time of heating, the proper hardness when molded, and the appropriate degree of flatness of the burn surface when the candle is burning. Furthermore, the degree of polymerization is important in helping the added perfume to dissolve and mix within the candle manufacturing material.

10 [0014] In the present invention, the degree of polymerization is such that n is from 2 to 40. If the degree of polymerization surpasses this, the viscosity becomes large, and material becomes difficult to handle. There is also a stickiness in the feel at the time of use. If the degree of polymerization is below this, there are problems in terms of the maintenance of the fragrance and the flammability. The R of the aliphatic alcohol is from 1 to 10.

15 [0015] When R is a butyl group, n is preferably from 2 to 33 (Mn being from 200 to 2000). A more preferred range for n is from 4 to 16 (Mn being from 300 to 1000).

[0016] When the carbon number of group R exceeds 10, the viscosity increases. Then, a hardness develops, the miscibility with the perfume material and the candle manufacturing material is decreased. This is not preferred.

20 [0017] A methyl group, ethyl group, propyl group, n-butyl group, n-pentyl group, n-hexyl group, n-heptyl group, n-octyl group, n-nonyl or n-decyl group can be used, and in particular the n-butyl group is preferred. The amount to be used is between 0.1 to 10 % by weight of the candle manufacturing material, and preferably is 0.5 to 8 % by weight.

25 [0018] Furthermore, a variety of additives such as stearic acid, colorants and repellents can be added to the candle manufacturing material. Adding these additives still obtains a good quality candle.

30 [0019] There are no particular limitations for the perfume to be used in the present invention. However, because the main material of the candle of the prior art is paraffin, a perfume product with a strong polarity is difficult to use due to problems with solubility. If at least one of polypropylene glycol and polypropylene monoalkyl ether of the present invention is added to the paraffin material, a variety of perfume items can be used. The scent of the perfume can be chosen according to the location or atmosphere where it is to be used, and rose and citrus and the like are preferred.

35 [0020] There are no particular limitations to the candle manufacturing material. Materials which can be used include, but are not limited to, paraffin, bee's wax, synthetic wax, sugars, fatty acids such as stearic acid and the like, polyamide resins, aliphatic amides, aliphatic alcohols, divalent alcohols, polyvalent alcohols, emulsifiers, oils such as palm or soy bean oil or the like. Combinations of additional commonly used additives can also be used. The candle manufacturing material needs to have a melting point of 70 to 80 °C.

40 [0021] The present invention is characterized by the discovery of a substance which can be added to the candle manufacturing material and which improves its function. The manufacturing means for the candle is achieved by conventional methods.

#### Embodiment 1 - Perfume model

45 [0022] Preparation of perfume model - Two types of perfume preparations were created using the following recipes.

1. Spice perfume	Weight %
aldehyde C-10	2.0
cinnamic aldehyde	5.0
dianthine base	52.7
eugenol	5.0
isobornylacetate	5.0
linalyl acetate	2.5
menthol	10.1
sweet balsam base	17.7
Total	100.0

2. Rose perfume	Weight %
green ozone type base	4.5
citrus base	9.4
phenethyl alcohol	15.9
rose base	11.0
white floral base	4.6

(continued)

	2. Rose perfume	Weight %
5	violet base	1.5
	lilial	18.7
	hedione	9.4
	hexyl cinnamic aldehyde	6.6
10	kovanol	11.4
	benzyl salicylic acid	4.9
	musk base	2.4
	Total	100.0

**Embodiment 1 - General candle preparation method**

[0023] Approximately 500 g of paraffin wax (International Group Inc.), which is the candle manufacturing material, is placed in a glass beaker on top of a hot plate and is mixed with a stirrer and melted. Then, 93 g of hot wax, melted as described above, is poured into a flask. Next, 1 g of a polypropylene glycol monoalkyl ether and 6 g of perfume are added and stirred. This is heated and stirred for 5-10 minutes at 70 to 75 °C (at this time, the homogeneity of the mixture is assessed). Approximately 30 g of the wax mixture is poured into a 57g (2 ounce) jar which has been pre-heated to approximately 80 °C. The wick is placed carefully in the center, and it is cooled overnight. The wick is trimmed to approximately 0.64 cm (a 1/4 inch).

**Comparative Example 1**

[0024] A candle is prepared as described in Embodiment 1. However, no polypropylene glycol monobutyl ether (herein referred to as PPGMBE) is added. The perfume used is the spice formulation of Embodiment 1.

**Embodiment 2**

[0025] A candle is prepared as described in Embodiment 1. PPGMBE having a Mn of 1000 is used. The perfume used is the spice formulation of Embodiment 1.

**Embodiment 3**

[0026] A candle is prepared as described in Embodiment 1. PPGMBE having a Mn of 340 is used. The perfume used is the spice formulation of Embodiment 1.

**Comparative Example 2**

[0027] A candle is prepared as described in Embodiment 1. However, no PPGMBE is added. The perfume used is the rose formulation of Embodiment 1.

**Embodiment 4**

[0028] A candle is prepared as described in Embodiment 1. PPGMBE having a Mn of 1000 is used. The perfume used is the rose formulation of Embodiment 1.

**Embodiment 5**

[0029] A candle is prepared as described in Embodiment 1. PPGMBE having a Mn of 340 is used. The perfume used is the rose formulation of Embodiment 1.

Table 1

Embodiment	Perfurne	Content (wight %)	PPGMBE (weight %)	Mn
Comparative 1	Spice	6	0	

Table 1 (continued)

Embodiment	Perfurne	Content (weight %)	PPGMBE (weight %)	Mn
Embodiment 2	Spice	6	1	1,000
Embodiment 3	Spice	6	1	340
Comparative 2	Rose	6	0	-
Embodiment 4	Rose	6	1	1,000
Embodiment 5	Rose	6	1	340

**Embodiments 6-10 - Candle Preparation Method 2**

[0030] 93.5 g, 92 g, 89 g, 84 g of paraffin wax is used. 0.5 g, 2 g, 5 g, 10 g, respectively, of PPGMBE of Mn 340 is added to each. 6g of "rose perfume" indicated in Embodiment 1 is added to each, and the candle is prepared according to the method in Embodiment 1.

**Embodiment 6**

[0031] Approximately 500 grams of paraffin wax as the candle manufacturing material is placed in a glass beaker on top of a hot plate. The wax is mixed with a stirrer and melted. From the melted wax, 93.5 grams is poured into a flask. Next, 0.5 grams of PPGMBE having a Mn of 340 and 6 grams of perfume are added and stirred. This mixture is heated and stirred for 5-10 minutes at 70 to 75°C (at this time, the homogeneity of the mixture is assessed). Approximately 30 grams of the wax mixture is poured into a 2 ounce jar which has been pre-heated to approximately 80°C. The wick is placed carefully in the center. The candle thus formed is cooled overnight. The wick is trimmed to approximately a 1/4 inch. The perfume used is the rose formulation of Embodiment 1.

**Embodiment 7**

[0032] A candle is prepared as described in Embodiment 6. From the melted wax, 92 grams is poured into a flask. Next, 2 grams of PPGMBE having a Mn of 340 and 6 grams of perfume are added and stirred. The perfume used is the rose formulation of Embodiment 1.

**Embodiment 8**

[0033] A candle is prepared as described in Embodiment 6. From the melted wax, 89 grams is poured into a flask. Next, 5 grams of PPGMBE having a Mn of 340 and 6 grams of perfume are added and stirred. The perfume used is the rose formulation of Embodiment 1.

**Embodiment 9**

[0034] A candle is prepared as described in Embodiment 6. From the melted wax, 84 grams is poured into a flask. Next, 10 grams of PPGMBE having a Mn of 340 and 6 grams of perfume are added and stirred. The perfume used is the rose formulation of Embodiment 1.

**Embodiment 10**

[0035] A candle is prepared as described in Embodiment 1. However, no PPGMBE is added. Instead 1 gram of polypropylene glycol (referred to as PPG) having a Mn of 725 and 6 grams of perfume are added and stirred. The perfume used is the rose formulation of Embodiment 1.

Table 2

Embodiment	Perfume	Content (weight %)	Additive	Weight %	Average Molecular Weight (Mn)
Embodiment 6	Rose	6	PPGMBE	0.5	340
Embodiment 7	Rose	6	PPGMBE	2.0	340

Table 2 (continued)

Embodiment	Perfume	Content (weight %)	Additive	Weight %	Average Molecular Weight (Mn)
Embodiment 8	Rose	6	PPGMBE	5.0	340
Embodiment 9	Rose	6	PPGMBE	10.0	340
Embodiment 10	Rose	6	PPG	1.0	725

**Experiment 1 - Evaluation of the candles**

[0036] After weighing the various candles constructed as above, the candles are burned for 2-3 hours in a room with draft and evaluations were given.

[0037] The candle is placed vertically in a horizontally arranged 55 gallon steel can with a plexiglass window that can be opened for fragrance evaluations. Evaluations are conducted by 3 expert panelists. Evaluations had the following ratings, and an average is generated.

Fragrance quality	Value
E=Excellent	7
VG= Very good	6
G=Good	5
F=Fair	4
M=Medium	3
P=Poor	2
NG=No good	1

Fragrance Intensity: 0 (no smell) to 5 (extremely strong)

Table 3

Embodiment	Fragrance Quality	Fragrance Intensity	Weight Loss grams/hour
Comparative 1	3.00	3.50	3.06
Embodiment 2	4.83	3.75	2.94
Embodiment 3	4.67	3.50	3.63
Comparative 2	5.17	3.50	2.92
Embodiment 4	4.67	4.67	2.90
Embodiment 5	4.67	4.67	3.13

Table 4

Embodiment	Fragrance	Content (weight %)	Additive	Weight %	Mn	Burning Speed (g/h)			Average (g/h)
						1	2	3	
Comparative 2	Rose	6	-	0	340	3.93	4.17	4.32	4.14
Embodiment 6	Rose	6	PPGMBE	0.5	340	3.50	4.15	4.66	4.10
Embodiment 4	Rose	6	PPGMBE	1	340	4.09	4.09	4.16	4.11
Embodiment 7	Rose	6	PPGMBE	2	340	3.67	3.96	4.26	3.96

Table 4 (continued)

Embodiment	Fragrance	Content (weight %)	Additive	Weight %	Mn	Burning Speed (g/h)			Average (g/h)
						1	2	3	
Embodiment 8	Rose	6	PPGMBE	5	340	3.71	4.05	4.53	4.10
Embodiment 9	Rose	6	PPGMBE	10	340	4.12	4.19	4.38	4.23
Embodiment 10	Rose	6	PPG	1	725	4.42	4.72	4.81	4.65

[0038] From the data in Tables 3 and 4, it is shown that the performance of a good performing candle (Comparative Example 2), made from an acceptable fragrance (rose) and candle manufacturing material (paraffin wax) combination, is not greatly affected by the addition of at least one of a polypropylene glycol or a polypropylene glycol monoalkyl ether having the general formula (I):  $H-(OC_3H_6)_n-O-R$ , where n is an integer between 2 and 40 and R is a hydrogen or an alkyl group with a carbon number between 1 and 10. On the other hand, the performance of a poor performing candle (Comparative Example 1), made from an unacceptable fragrance (spice) and candle manufacturing material (paraffin wax) combination, is significantly improved by the addition of a polypropylene glycol monoalkyl ether having the general formula (I) as indicated above.

[0039] These combinations of fragrance materials and candle manufacturing materials, which were shown in the prior art to be unacceptable for the production of candles, can now be used effectively in the preparation of finished candles by employment of the materials and methods of the present invention.

[0040] Having described preferred embodiments of the invention it is to be understood that the invention is not limited to those precise embodiments, and that various changes and modifications may be effected therein by one skilled in the art without departing from the scope of the invention as defined in the appended claims.

### Claims

1. A scented candle, comprising:

a candle manufacturing material;

a fragrance provider; and

at least one of a polypropylene glycol and a polypropylene glycol monoalkyl ether, having the following general formula (I):



wherein n is an integer from 2 to 40, and R is H or an alkyl group having between 1 and 10 carbon atoms.

2. A scented candle according to claim 1, wherein said at least one of polypropylene glycol and polypropylene glycol monoalkyl ether has an average degree of polymerization of between about 2 and about 40 moles.
3. A scented candle according to claim 1, wherein said at least one of polypropylene glycol and polypropylene glycol monoalkyl ether has a Mn of between about 200 and about 2000.
4. A scented candle according to claim 1, wherein said at least one of polypropylene glycol and polypropylene glycol monoalkyl ether has a Mn of between about 300 and about 1,000.
5. A scented candle according to claim 1, wherein R is a butyl group and n is an integer between 2 and 33.
6. A scented candle according to claim 1, wherein R is a butyl group and n is an integer between 4 and 16.
7. A scented candle according to claim 1, wherein said R of said at least one of polypropylene glycol and polypropylene

glycol monoalkyl ether is one of methyl group, ethyl group, propyl group, n-butyl group, n-pentyl group, n-hexyl group, n-heptyl group, n-octyl group, n-nonyl and n-decyl group.

5 8. A scented candle according to claim 1, wherein said R of said at least one of polypropylene glycol and polypropylene glycol monoalkyl ether is n-butyl group.

10 9. A scented candle according to claim 7, wherein said at least one of polypropylene glycol and polypropylene glycol monoalkyl ether is present at an amount between about 0.1 % to about 10 % by weight of said candle manufacturing material.

15 10. A scented candle according to claim 7, wherein said at least one of polypropylene glycol and polypropylene glycol monoalkyl ether is present at an amount between about 0.5 % to about 8 % by weight of said candle manufacturing material.

20 11. A scented candle according to claim 1, wherein said candle manufacturing material is one of paraffin wax, beeswax, synthetic wax, a sugar, a fatty acid, a polyamide resin, an aliphatic amide, an aliphatic alcohol, a divalent alcohol, a polyvalent alcohol, an emulsifier, an oil and an additive.

25 12. A scented candle according to claim 1, wherein said candle manufacturing material is paraffin wax.

13. A scented candle according to claim 1, wherein said candle manufacturing material has a melting point of 70 to 80°C.

25 14. A method of producing a scented candle in which at least one of a polypropylene glycol and a polypropylene glycol monoalkyl ether, having the following general formula (I):



30 wherein n is an integer from 2 to 40, and R is H or an alkyl group having between 1 and 10 carbon atoms is added to a mixture of a candle-making material and a fragrance provider.

#### Patentansprüche

35 1. Duftkerze, enthaltend  
ein Kerzenherstellungsmaterial,  
eine Duftquelle, und  
zumindest eines von Polypropylenglykol und Polypropylenglykolmonoalkylether mit der folgenden allgemeinen  
40 Formel (I)



45 worin n eine ganze Zahl von 2 bis 40 und R H oder eine Alkylgruppe mit zwischen 1 und 10 Kohlenstoffatomen sind.

2. Duftkerze nach Anspruch 1, worin das zumindest eine von Polypropylenglykol und Polypropylenglykolmonoalkylether einen durchschnittlichen Polymerisationsgrad von zwischen etwa 2 und etwa 40 Mol hat.

50 3. Duftkerze nach Anspruch 1, worin das zumindest eine von Polypropylenglykol und Polypropylenglykolmonoalkylether ein Mn von zwischen etwa 200 und etwa 2000 hat.

4. Duftkerze nach Anspruch 1, worin das zumindest eine von Polypropylenglykol und Polypropylenglykolmonoalkylether ein Mn von zwischen etwa 300 und etwa 1000 hat.

55 5. Duftkerze nach Anspruch 1, worin R eine Butylgruppe und n eine ganze Zahl zwischen 2 und 33 sind.

6. Duftkerze nach Anspruch 1, worin R eine Butylgruppe und n eine ganze Zahl zwischen 4 und 16 sind.

7. Duftkerze nach Anspruch 1, worin das R des zumindest einen von Polypropylenglykol und Polypropylenglykolmonoalkylether eine Methylgruppe, Ethylgruppe, Propylgruppe, n-Butylgruppe, n-Pentylgruppe, n-Hexylgruppe, n-Heptylgruppe, n-Octylgruppe, n-Nonylgruppe und n-Decylgruppe ist.

8. Duftkerze nach Anspruch 1, worin das R des zumindest einen von Polypropylenglykol und Polypropylenglykolmonoalkylether eine n-Butylgruppe ist.

10. Duftkerze nach Anspruch 7, worin zumindest eines von Polypropylenglykol und Polypropylenglykolmonoalkylether in einer Menge von zwischen etwa 0,1 bis etwa 10 Gew.-% des Kerzenherstellungsmaterials anwesend ist.

15. Duftkerze nach Anspruch 7, worin zumindest eines von Polypropylenglykol und Polypropylenglykolmonoalkylether in einer Menge von zwischen etwa 0,5 bis etwa 10 Gew.-% des Kerzenherstellungsmaterials anwesend ist.

20. Duftkerze nach Anspruch 1, worin das Kerzenherstellungsmaterial eines aus Paraffinwachs, Bienenwachs, synthetischem Wachs, einem Zucker, einer Fettsäure, einem Polyamidharz, einem aliphatischen Amid, einem aliphatischen Alkohol, einem divalenten Alkohol, einem polyvalenten Alkohol, einem Emulgator, einem Öl und einem Additiv ist.

25. Duftkerze nach Anspruch 1, worin das Kerzenherstellungsmaterial Paraffinwachs ist.

13. Duftkerze nach Anspruch 1, worin das Kerzenherstellungsmaterial einen Schmelzpunkt von 70 bis 80°C hat.

25. Verfahren zur Herstellung einer Duftkerze, bei dem zumindest eines von Polypropylenglykol und Polypropylenglykolmonoalkylether mit der folgenden allgemeinen Formel (I)



worin n eine ganze Zahl von 2 bis 40 und R H oder eine Alkylgruppe mit zwischen 1 und 10 Kohlenstoffatomen sind, einer Mischung eines Kerzenherstellungsmaterials und einer Duftquelle zugegeben wird.

### 35 Revendications

1. Bougie odoriférante, comprenant :

40 un matériau de fabrication de bougie,  
un fournisseur de parfum, et  
au moins l'un parmi un polypropylèneglycol et un monoalkyléther de polypropylèneglycol, présentant la formule (I) suivante :

45  $H-(OC_3H_6)_n-O-R \quad (I)$

dans laquelle n est un nombre entier de 2 à 40 et R est H ou un groupement alkyle comportant entre 1 et 10 atomes de carbone.

50 2. Bougie odoriférante selon la revendication 1, dans laquelle ledit au moins l'un parmi le polypropylèneglycol et le monoalkyléther de polypropylèneglycol présente un degré moyen de polymérisation entre environ 2 et environ 40 moles.

55 3. Bougie odoriférante selon la revendication 1, dans laquelle ledit au moins l'un du polypropylèneglycol et du monoalkyléther de polypropylèneglycol présente une masse Mn entre environ 200 et environ 2 000.

4. Bougie odoriférante selon la revendication 1, dans laquelle ledit au moins l'un parmi le polypropylèneglycol et le

monoalkyléther de polypropylèneglycol présente une masse Mn entre environ 300 et environ 1 000.

5. Bougie odoriférante selon la revendication 1, dans laquelle R est un groupement butyle et n est un nombre entier entre 2 et 33.

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6. Bougie odoriférante selon la revendication 1, dans laquelle R est un groupement butyle et n est un nombre entier entre 4 et 16.

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7. Bougie odoriférante selon la revendication 1, dans laquelle ledit R dudit au moins l'un du polypropylèneglycol et du monoalkyléther de polypropylèneglycol est l'un parmi un groupement méthyle, un groupement éthyle, un groupement propyle, un groupement n-butyle, un groupement n-pentyle, un groupement n-hexyle, un groupement n-heptyle, un groupement n-octyle, un groupement n-nonyle et un groupement n-décyle.

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8. Bougie odoriférante selon la revendication 1, dans laquelle ledit R dudit au moins l'un du polypropylèneglycol et du monoalkyléther de polypropylèneglycol est un groupement n-butyle.

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9. Bougie odoriférante selon la revendication 7, dans laquelle ledit au moins l'un du polypropylèneglycol et du monoalkyléther de polypropylèneglycol est présent à une proportion entre environ 0,1 % et environ 10 % en poids dudit matériau de fabrication de bougie.

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10. Bougie odoriférante selon la revendication 7, dans laquelle ledit au moins l'un du polypropylèneglycol et du monoalkyléther de polypropylèneglycol est présent à une proportion entre environ 0,5 % et environ 8 % en poids dudit matériau de fabrication de bougie.

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11. Bougie odoriférante selon la revendication 1, dans laquelle ledit matériau de fabrication de bougie est un matériau parmi une cire de paraffine, une cire d'abeille, une cire synthétique, un sucre, un acide gras, une résine de polyamide, un amide aliphatique, un alcool aliphatique, un alcool divalent, un alcool polyvalent, un émulsifiant, une huile et un additif.

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12. Bougie odoriférante selon la revendication 1, dans laquelle ledit matériau de fabrication de bougie est de la cire de paraffine.

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13. Bougie odoriférante selon la revendication 1, dans laquelle ledit matériau de fabrication de bougie présente un point de fusion de 70 à 80 °C.

14. Procédé de fabrication d'une bougie odoriférante dans lequel au moins l'un d'un polypropylèneglycol et d'un monoalkyléther de polypropylèneglycol, présentant la formule générale (I) suivante :



dans laquelle n est un nombre entier de 2 à 40, et R est H ou un groupement alkyle comportant entre 1 et 10 atomes de carbone est ajouté à un mélange d'un matériau de fabrication de bougie et d'un fournisseur de parfum.

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